

## ABSTRACT

At least one of a hollow particle 14, a porous particle 24,  
and a solid particle 34 having the pores 18, 28, 38 on the  
5 surface thereof is subjected to plasma irradiation under a  
reduced pressure while changing plasma irradiation intensity  
and/or the degree of vacuum. After the plasma irradiation, at  
least one type of monomer is graft polymerized onto the surface  
of the plasma irradiated particle by contact between the at  
10 least one type of monomer and the particle so as to  
substantially fill the pores 18, 28, and 38 of the particle with  
grafted polymers 12 of the monomers.